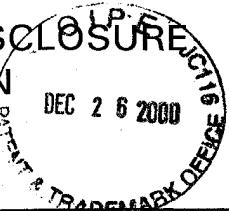
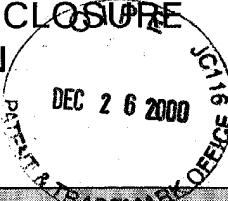


| INFORMATION DISCLOSURE CITATION  PTO-1449 | | | | ATTY. DOCKET NO. A-67499-1/RFT/ RMS/RMK | SERIAL NO: 09/472,657 | | | |
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| U. S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER'S INITIALS | | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE | |
| ✓ | 1 | 4,707,352 | 11/17/87 | Stavrianopoulos | | | | |
| ✓ | 2 | 4,707,440 | 11/1987 | Stavrianopoulos | 435 | 6 | | |
| ✓ | 3 | 4,711,955 | 12/8/87 | Ward et al. | | | | |
| ✓ | 4 | 4,755,458 | 7/5/88 | Rabbani et al. | | | | |
| ✓ | 5 | 4,849,513 | 7/18/89 | Smith et al. | 536 | 27 | | |
| ✓ | 6 | 4,868,103 | 9/19/89 | Stavrianopoulos et al. | | | | |
| ✓ | 7 | 4,894,325 | 1/16/90 | Englehardt et al. | | | | |
| ✓ | 8 | 4,943,523 | 7/24/90 | Stavrianopoulos | | | | |
| ✓ | 9 | 4,952,685 | 8/28/90 | Stavrianopoulos | | | | |
| ✓ | 10 | 4,994,373 | 2/19/91 | Stavrianopoulos | | | | |
| ✓ | 11 | 5,002,885 | 3/26/91 | Stavrianopoulos | | | | |
| ✓ | 12 | 5,013,831 | 5/7/91 | Stavrianopoulos | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| EXAMINER'S INITIALS | | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
| | | | | | | | Yes | No |
| ✓ | 13 | 0 63879 | 11/3/82 | Europe | | | | |
| ✓ | 14 | 92/10757 | 6/25/92 | PCT (WO) | | | | |
| ✓ | 15 | 0 234938 | 2/26/87 | EP (A2) | | | | |
| ✓ | 16 | 93/10267 | PCT | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | |
| | | | | | | | | |
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| U.S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER'S INITIALS | | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE | |
| ✓ | 17 | 5,082,830 | 1/21/92 | Brakel et al. | | | | |
| ✓ | 18 | 5,175,269 | 12/29/92 | Stavrianopoulos | | | | |
| ✓ | 19 | 5,241,060 | 8/31/93 | Englehardt et al. | | | | |
| ✓ | 20 | 5,278,043 | 1/11/95 | Bannwarth et al. | 536 | 23.1 | | |
| ✓ | 21 | 5,312,527 | 5/17/94 | Mikkelsen et al. | 204 | 153.12 | | |
| ✓ | 22 | 5,328,824 | 7/12/94 | Ward et al. | | | | |
| ✓ | 23 | 5,449,767 | 9/12/95 | Ward et al. | | | | |
| ✓ | 24 | 5,472,881 | 12/95 | Beebe et al. | 436 | 94 | | |
| ✓ | 25 | 5,476,928 | 12/19/95 | Ward et al. | | | | |
| ✓ | 26 | 5,595,908 | 1/21/97 | Fawcett et al. | 435 | 287.2 | | |
| ✓ | 27 | 5,565,552 | 10/15/96 | Magda et al. | 534 | 11 | | |
| ✓ | 28 | 5,573,906 | 11/12/96 | Bannwarth et al. | 435 | 6 | | |
| ✓ | 29 | 5,591,578 | 1/7/97 | Meade et al. | 435 | 6 | | |
| ✓ | 30 | 5,601,982 | 2/1997 | Sargent et al. | 435 | 6 | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | Translation | |
| EXAMINER'S INITIALS | | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Yes | No |
| ✓ | 31 | 2 090904 | 9/24/93 | CANADA ✓ | | | | |
| ✓ | 32 | 0 599337 | 1/16/94 | EPO ✓ | | | | |
| ✓ | 33 | 238,166 | 1988 | JP (Abstract (63-238166)) ✓ | | | | |
| ✓ | 34 | 0 229943 | 7/29/87 | EP ✓ | | | | |
| ✓ | 35 | 96/40712 | 12/19/96 | WO ✓ | | | | |
| EXAMINER | | | | DATE CONSIDERED | | | | |

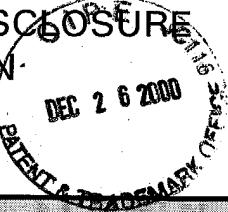
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 8085 1449A.FRM (8/95)

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| | | | | FILING DATE: December 27, 1999 | GROUP 3736 | | | |
| | | | | U.S. PATENT DOCUMENTS | | | | |
| EXAMINER'S INITIALS | | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE | |
| ✓ | 36 | 4,840,893 | 6/20/89 | Hill et al. | 435 | 6 | | |
| ✓ | 37 | 5,403,451 | 4/4/95 | Riviello et al. | 204 | 153.1 | | |
| ✓ | 38 | 5,620,850 | 4/15/97 | Bamdad et al. | 530 | 300 | | |
| ✓ | 39 | 5,780,234 | 7/14/98 | Meade et al. | 435 | 6 | | |
| ✓ | 40 | 5,770,369 | 6/23/98 | Meade et al. | 435 | 6 | | |
| ✓ | 41 | 5,705,348 | 1/6/98 | Meade et al. | 435 | 6 | | |
| ✓ | 42 | 5,824,473 | 10/1998 | Meade et al. | 435 | 6 | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| EXAMINER'S INITIALS | | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
| | | | | | | | Yes | No |
| ✓ | 43 | 0515615 | 9/4/96 | EP (UK) | | | | |
| ✓ | 44 | 97/01646 | 1/16/97 | WO | | | | |
| ✓ | 45 | 93/23425 | 11/25/93 | WO | | | | |
| ✓ | 46 | 90/05732 | 5/31/90 | WO | | | | |
| ✓ | 47 | 6-41183 | 2/15/94 | JP | | | X | |
| ✓ | 48 | 93/22678 | 11/1993 | PCT | | | | |
| ✓ | 49 | 97/44651 | 11/1997 | PCT | | | | |
| ✓ | 50 | 98/35232 | 8/1998 | PCT | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | |
| | | | | | | | | |
| EXAMINER | | | | DATE CONSIDERED | | | | |

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| | | | | APPLICANT: KAYYEM | | | | |
| | | | | FILING DATE: December 27, 1999 | GROUP 3736 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER'S INITIALS | | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE | |
| ✓ | 51 | 5,776,672 | 7/1998 | Hashimoto et al. | | | | |
| ✓ | 52 | 5,952,172 | 9/1999 | Meade et al. | | | | |
| ✓ | 53 | 5,552,270 | 9/1996 | Khrapko et al. | | | | |
| ✓ | 54 | 5,741,700 | 4/1998 | Ershov et al. | | | | |
| ✓ | 55 | 5,770,721 | 6/1998 | Ershov et al. | | | | |
| ✓ | 56 | 5,851,772 | 12/1998 | Mirzabekov et al. | | | | |
| ✓ | 57 | 5,756,050 | 5/1998 | Ershov et al. | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | Translation | |
| EXAMINER'S INITIALS | | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Yes | No |
| ✓ | 58 | 95/15971 | 6/1995 | PCT ✓ | | | | |
| ✓ | 59 | 94/22889 | 10/1994 | PCT ✓ | | | | |
| ✓ | 60 | 98/20162 | 5/1998 | PCT ✓ | | | | |
| ✓ | 61 | 99/14596 | 3/1999 | PCT ✓ | | | | |
| ✓ | 62 | 99/67425 | 12/1999 | PCT ✓ | | | | |
| ✓ | 63 | 98/28444 | 7/1998 | PCT ✓ | | | | |
| ✓ | 64 | 98/27229 | 6/1998 | PCT ✓ | | | | |
| ✓ | 65 | 97/27329 | 7/1997 | PCT ✓ | | | | |
| EXAMINER | | | | DATE CONSIDERED | | | | |

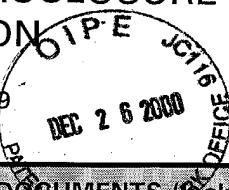
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
 8085 1449A.FRM (8/95)

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| INFORMATION DISCLOSURE CITATION  PTO-1449 | | ATTY. DOCKET NO. A-67499-1/RFT/ RMS/RMK | SERIAL NO: 09/472,657 |
| | | APPLICANT: KAYYEM | |
| | | FILING DATE: December 27, 1999 | GROUP 3736 |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| <input checked="" type="checkbox"/> | 66 | Alleman, K.S., et al., "Electrochemical Rectification at a Monolayer-Modified Electrode," <i>J. Phys. Chem.</i> , 100:17050-17058 (1996). | |
| <input checked="" type="checkbox"/> | 67 | Arkin et al. "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorganic Biochem. Abstracts</i> , 6th International Conference on Bioinorganic Chemistry, 51(1) & (2):526 (1993). | |
| <input checked="" type="checkbox"/> | 68 | Barisci et al., "Conducting Polymer Sensors," <i>TRIP</i> , 4(9):307-311 (1996). | |
| <input checked="" type="checkbox"/> | 69 | Baum, R. M., "Views on Biological, Long-Range Electron Transfer Stir Debate," <i>C&EN</i> , pp 20-23 (1993). | |
| <input checked="" type="checkbox"/> | 70 | Bechtold, R., et al., "Ruthenium-Modified Horse Heart Cytochrome c: Effect of pH and Ligation on the Rate of Intramolecular Electron Transfer between Ruthenium(II) and Hemie(III)," <i>J. Phys. Chem.</i> , 90(16):3800-3804 (1986). | |
| <input checked="" type="checkbox"/> | 71 | Bidan, "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A Review," <i>Sensors and Actuators</i> , B6:45-56 (1992). | |
| <input checked="" type="checkbox"/> | 72 | Biotechnology and Genetics: Genetic Screening Integrated Circuit," <i>The Economist</i> (February 25-March 3, 1995). | |
| <input checked="" type="checkbox"/> | 73 | Boguslavsky, L. et al., "Applications of redox polymers in biosensors," <i>Solid State Ionics</i> , 60:189-197 (1993). | |
| <input checked="" type="checkbox"/> | 74 | Bowler, B. E., et al., "Long-Range Electron Transfer in Donor (Spacer) Acceptor Molecules and Proteins," <i>Progress in Inorganic Chemistry: Bioinorganic Chemistry</i> , 38:259-322 (1990). | |
| <input checked="" type="checkbox"/> | 75 | Brun, A. M., et al., "Photochemistry of Intercalated Quaternary Diazaaromatic Salts," <i>J. Am. Chem. Soc.</i> , 113:8153-8159 (1991). | |
| <input checked="" type="checkbox"/> | 76 | Bumm, et al., "Are Single Molecular Wires Conducting?," <i>Science</i> 271:1705-1707 (1996). | |
| <input checked="" type="checkbox"/> | 77 | Cantor, C.R. et al., "Report on the Sequencing by Hybridization Workshop," <i>Genomics</i> , 13:1378-1383 (1992). | |
| <input checked="" type="checkbox"/> | 78 | Chang, I-Jy, et al., "High-Driving-Force Electron Transfer in Metalloproteins: Intramolecular Oxidation of Ferrocytocrome c by Ru(2,2'-bpy) ₂ (im)(His-33) ³⁺ ," <i>J. Am. Chem. Soc.</i> , 113:7056-7057 (1991). | |
| <input checked="" type="checkbox"/> | 79 | Chidsey, C.E.D., et al., "Free Energy and Temperature Dependence of Electron Transfer at the Metal Electrolyte Interface," <i>Science</i> , 251:919-923 (1991). | |
| <input checked="" type="checkbox"/> | 80 | Chidsey, et al., "Coadsorption of Ferrocene-Terminated and Unsubstituted Alkanethiols on Gold" Electroactive Self-Assembled Monolayers," <i>J. Am. Chem. Soc.</i> , 112:4301-4306 (1990). | |
| <input checked="" type="checkbox"/> | 81 | Chrisey, et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Research</i> , 24(15):3031-3039 (1996). | |
| <input checked="" type="checkbox"/> | 82 | Clery, "DNA Goes Electric," <i>Science</i> , 267:1270 (1995). | |
| <input checked="" type="checkbox"/> | 83 | <i>Commerce Business Daily</i> Issue of September 26, 1996 PSA#1688. | |
| EXAMINER | | DATE CONSIDERED | |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 8085 1449A.FRM (8/95)

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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| <input checked="" type="checkbox"/> | 85 | Davis, L. M., et al., "Electron Donor Properties of the Antitumour Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound Ethidium," <i>Chem.-Biol. Interactions</i> , 62:45-58 (1987). | |
| <input checked="" type="checkbox"/> | 86 | Davis, L. M., et al., "Elements of biosensor construction," <i>Enzyme Microb. Technol.</i> 17:1030-1035 (1995). | |
| <input checked="" type="checkbox"/> | 87 | Degani et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 2. Methods for Bonding Electron-Transfer Relays to Glucose Oxidase and D-Amino-Acid Oxidase," <i>J. Am. Chem. Soc.</i> 110:2615-2620 (1988). | |
| <input checked="" type="checkbox"/> | 88 | Degani, Y., et al., "Electrical Communication between Redox Centers of Glucose Oxidase and Electrodes via Electrostatically and Covalently Bound Redox Polymers," <i>J. Am. Chem. Soc.</i> , 111:2357-2358 (1989). | |
| <input checked="" type="checkbox"/> | 89 | Degani, Y., et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 1. Electron Transfer from Glucose Oxidase to Metal Electrodes via Electron Relays, Bound Covalently to the Enzyme," <i>J. Phys. Chem.</i> , 91(6):1285-1288 (1987). | |
| <input checked="" type="checkbox"/> | 90 | Deinhammer, R.S., et al., "Electronchemical Oxidation of Amine-containing compounds: A Route to the Surface Modification of glassy carbon electrodes," <i>Langmuir</i> , 10:1306-1313 (1994). | |
| <input checked="" type="checkbox"/> | 91 | Dreyer, G. B., et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA-Fe(II)," <i>Proc. Natl. Acad. Sci. USA</i> , 82:968-972 (1985). | |
| <input checked="" type="checkbox"/> | 92 | Durham, B., et al., "Photoinduced Electron-Transfer Kinetics of Singly Labeled Ruthenium Bis(bipyridin) Dicarboxybipyridine Cytochrome c Derivatives," <i>Biochemistry</i> , 28:8659-8665 (1989). | |
| <input checked="" type="checkbox"/> | 93 | Durham, B., et al., "Electron-Transfer Kinetics of Singly Labeled Ruthenium(II) Polypyridine Cytochrome c Derivatives," <i>Advances in Chemistry Series</i> , 226:181-193 (1990). | |
| <input checked="" type="checkbox"/> | 94 | Elias, H., et al., "Electron-Transfer Kinetics of Zn-Substituted Cytochrome c and Its Ru(NH ₃) ₅ (Histidine-33) Derivative," <i>J. Am. Chem. Soc.</i> , 110:429-434 (1988). | |
| <input checked="" type="checkbox"/> | 95 | Farver, O., et al., "Long-range intramolecular electron transfer in azurins," <i>Proc. Natl. Acad. Sci. USA</i> , 86:6968-6972 (1989). | |
| <input checked="" type="checkbox"/> | 96 | Fox, L. S., et al., "Gaussian Free-Energy Dependence of Electron-Transfer Rates in Iridium Complexes," <i>Science</i> , 247:1069-1071 (1990). | |
| <input checked="" type="checkbox"/> | 97 | Fox, M. A., et al., "Light-Harvesting Polymer Systems," <i>C&EN</i> , pages 38-48 (March 15, 1993). | |
| <input checked="" type="checkbox"/> | 98 | Francois, J-C., et al., "Periodic Cleavage of Poly(dA) by Oligothymidylates Covalently Linked to the 1,10-Phenanthroline-Copper Complex," <i>Biochemistry</i> , 27:2272-2276 (1988). | |
| <input checked="" type="checkbox"/> | 99 | Friedman, A. E., et al., "Molecular 'Light Switch' for DNA: Ru(bpy) ₂ (dppz) ²⁺ ," <i>J. Am. Chem. Soc.</i> , 112:4960-4962 (1990). | |
| <input checked="" type="checkbox"/> | 100 | Fromherz, P., et al., "Photoinduced Electron Transfer in DNA Matrix from Intercalated Ethidium to Condensed Methylviologen," <i>J. Am. Chem. Soc.</i> , 108:5361-5362 (1986). | |
| <input checked="" type="checkbox"/> | 101 | Gardner, et al., "Application of conducting polymer technology in microsystems," <i>Sensors and Actuators</i> , A51:57-66 (1995). | |
| <input checked="" type="checkbox"/> | 102 | Gregg, B. A., et al., "Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications," <i>Anal. Chem.</i> , 62:258-263 (1990). | |
| <input checked="" type="checkbox"/> | 103 | Gregg, B. A., et al., "Redox Polymer Films Containing Enzymes. 1. A Redox-Conducting Epoxy Cement: Synthesis, Characterization, and Electrocatalytic Oxidation of Hydroquinone," <i>J. Phys. Chem.</i> , 95:5970-5975 (1991). | |
| EXAMINER | | DATE CONSIDERED | |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
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| | | FILING DATE: December 27, 1999 | GROUP 3736 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>104</td> <td>Hashimoto, et al., "Sequence-Specific Gene Detection with a Gold Electrode Modified with DNA Probes and an Electrochemically Active Dye," <i>Anal. Chem.</i> 66:3830-3833 (1994).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>105</td> <td>Hegner, et al., "Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions," <i>FEBS</i> 336(3):452-456 (1993).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>106</td> <td>Heller, A., et al., "Amperometric biosensors based on three-dimensional hydrogel-forming epoxy networks," <i>Sensors and Actuators</i>, 13-14:180-183 (1993).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>107</td> <td>Heller, A., "Electrical Wiring of Redox Enzymes," <i>Acc. Chem. Res.</i>, 23:128-134 (1990).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>108</td> <td>Heller et al., "Fluorescent Energy Transfer Oligonucleotide Probes," <i>Fed. Proc.</i> 46(6):1968 (1987) Abstract No. 248.</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>109</td> <td>Ho "DNA-Mediated Electron Transfer and Application to 'Biochip' Development," <i>Abstract. Office of Naval Research</i> (Report Date: July 25, 1991) 1-4, RR04106.</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>110</td> <td>Hobbs et al., "Polynucleotides Containing 2'-Amino-2'deoxyribose and 2'-Azido-2'-deoxyribose," <i>Biochemistry</i>, 12(25):5138-5145 (1973).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>111</td> <td>Hsung, et al., "Synthesis and Characterization of Unsymmetric Ferrocene-Terminated Phenylethynyl Oligomers," <i>Organometallics</i>, 14:4808-4815 (1995).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>112</td> <td>Hsung, et al., "Thiophenol Protecting Groups for the Palladium-Catalyzed Heck Reaction: Efficient Syntheses of Conjugated Arylthiols," <i>Tetrahedron Letters</i>, 36(26):4525-4528 (1995).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>113</td> <td>Jenkins et al., "A Sequence-Specific Molecular Light Switch: Tebhering of an Oligonucleotide to a Dipyridophenazine Complex of Ruthenium (II)," <i>J. Am. Chem. Soc.</i>, 114:8736-8738 (1992).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>114</td> <td>Katritzky, et al., "Pyridylethylation - A New Protection Method for Active Hydrogen Compounds," <i>Tetrahedron Letters</i>, 25(12):1223-1226 (1984).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>115</td> <td>Kelley, S.O. and J.K. Barton, "Electrochemistry of Methylene Blue Bound to a DNA-Modified Electrode," <i>Bioconjugate Chem.</i>, 8:31-37 (1997).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>116</td> <td>Kojima et al., "A DNA Probe of Ruthenium Bipyridine Complex Using Photocatalytic Activity," <i>Chemistry Letter</i>, pp 1889-1982 (1989).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>117</td> <td>Laviron, E., "A.C. Polarography and Faradaic Impedance of Strongly Adsorbed Electroactive Species. 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Res.</i> , 23:128-134 (1990). | <input checked="" type="checkbox"/> | 108 | Heller et al., "Fluorescent Energy Transfer Oligonucleotide Probes," <i>Fed. Proc.</i> 46(6):1968 (1987) Abstract No. 248. | <input checked="" type="checkbox"/> | 109 | Ho "DNA-Mediated Electron Transfer and Application to 'Biochip' Development," <i>Abstract. Office of Naval Research</i> (Report Date: July 25, 1991) 1-4, RR04106. | <input checked="" type="checkbox"/> | 110 | Hobbs et al., "Polynucleotides Containing 2'-Amino-2'deoxyribose and 2'-Azido-2'-deoxyribose," <i>Biochemistry</i> , 12(25):5138-5145 (1973). | <input checked="" type="checkbox"/> | 111 | Hsung, et al., "Synthesis and Characterization of Unsymmetric Ferrocene-Terminated Phenylethynyl Oligomers," <i>Organometallics</i> , 14:4808-4815 (1995). | <input checked="" type="checkbox"/> | 112 | Hsung, et al., "Thiophenol Protecting Groups for the Palladium-Catalyzed Heck Reaction: Efficient Syntheses of Conjugated Arylthiols," <i>Tetrahedron Letters</i> , 36(26):4525-4528 (1995). | <input checked="" type="checkbox"/> | 113 | Jenkins et al., "A Sequence-Specific Molecular Light Switch: Tebhering of an Oligonucleotide to a Dipyridophenazine Complex of Ruthenium (II)," <i>J. Am. Chem. 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Polarography and Faradaic Impedance of Strongly Adsorbed Electroactive Species. Part III: Theoretical Complex Plane Analysis for a Surface Redox Reaction," <i>J. Electroanal. Chem.</i> , 105:35-42 (1979). | <input checked="" type="checkbox"/> | 119 | Lee, et al., "Direct Measurement of the Forces Between Complementary Strands of DNA," <i>Science</i> , 266:771-773 (1994). | <input checked="" type="checkbox"/> | 120 | Lenhard, J.R., et al., "Part VII Covalent Bonding of a Reversible- Electrode Reactant to Pt Electrodes Using an organosilane Reagent" <i>J. Electron. Chem.</i> , 78:195-201 (1977). | <input checked="" type="checkbox"/> | 121 | Lipkin "Identifying DNA by the Speed of Electrons," <i>Science News</i> , 147(8):117 (1995). |
| <input checked="" type="checkbox"/> | 104 | Hashimoto, et al., "Sequence-Specific Gene Detection with a Gold Electrode Modified with DNA Probes and an Electrochemically Active Dye," <i>Anal. Chem.</i> 66:3830-3833 (1994). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <input checked="" type="checkbox"/> | 107 | Heller, A., "Electrical Wiring of Redox Enzymes," <i>Acc. Chem. Res.</i> , 23:128-134 (1990). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | 108 | Heller et al., "Fluorescent Energy Transfer Oligonucleotide Probes," <i>Fed. Proc.</i> 46(6):1968 (1987) Abstract No. 248. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | 109 | Ho "DNA-Mediated Electron Transfer and Application to 'Biochip' Development," <i>Abstract. Office of Naval Research</i> (Report Date: July 25, 1991) 1-4, RR04106. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <input checked="" type="checkbox"/> | 115 | Kelley, S.O. and J.K. Barton, "Electrochemistry of Methylene Blue Bound to a DNA-Modified Electrode," <i>Bioconjugate Chem.</i> , 8:31-37 (1997). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <input checked="" type="checkbox"/> | 121 | Lipkin "Identifying DNA by the Speed of Electrons," <i>Science News</i> , 147(8):117 (1995). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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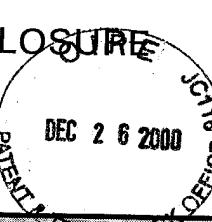
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | |
| <input checked="" type="checkbox"/> | 122 | Maskos, et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised <i>in situ</i> ," <i>Nucleic Acids Research</i> , 20(7):1679-1684 (1992). | | |
| <input checked="" type="checkbox"/> | 123 | Mazzocchi, Ph.H. and G. Fritz, "Photolysis of N-(2-Methyl-2-Propenyl)phthalimide in Methanol. Evidence Supporting Radical-Radical Coupling of a Photochemically Generated Radical Ion Pair," <i>Journal of the American Chemical Society</i> , 108(18):5361-5362 (1986). | | |
| <input checked="" type="checkbox"/> | 124 | McGee, et al., "2'-Amino-2'-deoxyuridine <i>via</i> an Intramolecular Cyclization of a Trichloroacetimidate," <i>J. Org. Chem.</i> , 61:781-785 (1996). | | |
| <input checked="" type="checkbox"/> | 125 | Meade, T. J., "Driving-Force Effects on the Rate of Long-Range Electron Transfer in Ruthenium-Modified Cytochrome c," <i>J. Am. Chem. Soc.</i> , 111:4353-4356 (1989). | | |
| <input checked="" type="checkbox"/> | 126 | Meade, T. J., et al., "Electron Transfer through DNA: Site-Specific Modification of Duplex DNA with Ruthenium Donors and Acceptors," <i>Angew Chem. Int. Ed. Engl.</i> , 34:352 (1995). | | |
| <input checked="" type="checkbox"/> | 127 | Mestel, "'Electron Highway' Points to Identity of DNA," <i>New Scientist</i> , p. 21 (1995). | | |
| <input checked="" type="checkbox"/> | 128 | Millan, et al., "Voltammetric DNA Biosensor for Cystic Fibrosis Based on a Modified Carbon Paste Electrode," <i>Anal. Chem.</i> , 66:2943-2948 (1994). | | |
| <input checked="" type="checkbox"/> | 129 | Millan, K.M., et al., "Covalent Immobilization of DNA onto Glassy Carbon Electrodes," <i>Electroanalysis</i> , 4(10):929-932 (1992). | | |
| <input checked="" type="checkbox"/> | 130 | Millan, K.M. and Mikkelsen, S.R., "Sequence-Selective Biosensor for DNA Based on Electroactive Hybridization Indicators," <i>Anal. Chem.</i> , 65:2317-2323 (1993). | | |
| <input checked="" type="checkbox"/> | 131 | Miller, C., "Absorbed ω -Hydroxy Thiol Monolayers on Gold Electrodes: Evidence for Electron Tunneling to Redox Species in Solution," <i>J. Phys. Chem.</i> , 95:877-886 (1991). | | |
| <input checked="" type="checkbox"/> | 132 | Murphy, C. J., et al., "Long-Range Photoinduced Electron Transfer Through a DNA Helix," <i>Science</i> , 262:1025-1029 (1993). | | |
| <input checked="" type="checkbox"/> | 133 | Orellana, G., et al., "Photoinduced Electron Transfer Quenching of Excited Ru(II) Polypyridyls Bound to DNA: The Role of the Nucleic Acid Double Helix," <i>Photochemistry and Photobiology</i> , 54(4):499-509 (1991). | | |
| <input checked="" type="checkbox"/> | 134 | Palecek, "From Polarography of DNA to Microanalysis with Nucleic Acid-Modified Electrodes," <i>Electroanalysis</i> , 8(1):7-14 (1996). | | |
| <input checked="" type="checkbox"/> | 135 | Paterson, "Electric Genes: Current Flow in DNA Could Lead to Faster Genetic Testing," <i>Scientific American</i> , 33-34 (May 1995). | | |
| <input checked="" type="checkbox"/> | 136 | Purugganan, M. D., et al., "Accelerated Electron Transfer Between Metal Complexes Mediated by DNA," <i>Science</i> , 241:1645-1649 (1988). | | |
| <input checked="" type="checkbox"/> | 137 | Rhodes, D. And A. Klug, "Helical Periodicity of DNA Determined by Enzyme Digestion," <i>Nature</i> , 286:573-578 (1980). | | |
| <input checked="" type="checkbox"/> | 138 | Risser, S. M., et al., "Electron Transfer in DNA: Predictions of Exponential Growth and Decay of Coupling with Donor-Acceptor Distance," <i>J. Am. Chem. Soc.</i> , 115(6):2508-2510 (1993). | | |
| <input checked="" type="checkbox"/> | 139 | Sato, Y., et al., "Unidirectional Electron Transfer at Self-Assembled Monolayers of 11-Ferrocenyl-1-undecanethiol on Gold," <i>Bull. Chem. Soc. Jpn.</i> , 66(4):1032-1037 (1993). | | |
| EXAMINER | | | DATE CONSIDERED | |

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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|-------------------------------------|-----|--|
| <input checked="" type="checkbox"/> | 140 | Satyanarayana, S., et al., "Neither Δ - nor Λ -Tris(phenanthroline)ruthenium(II) Binds to DNA by Classical Intercalation," <i>Biochemistry</i> , 31(39):9319-9324 (1992). |
| <input checked="" type="checkbox"/> | 141 | Schreiber, et al., "Bis(purine) Complexes of <i>trans</i> -a ₂ Pt ^{II} : Preparation and X-ray Structures of Bis(9-methyladenine) and Mixed 9-Methyladenine, 9-Methylguanine Complexes and Chemistry Relevant to Metal-Modified Nucleobase Triples and Quartets," <i>J. Am. Chem. Soc.</i> 118:4124-4132 (1996). |
| <input checked="" type="checkbox"/> | 142 | Schuhmann, W., et al., "Electron Transfer between Glucose Oxidase and Electrodes via Redox Mediators Bound with Flexible Chains to the Enzyme Surface," <i>J. Am. Chem. Soc.</i> , 113:1394-1397 (1991). |
| <input checked="" type="checkbox"/> | 143 | Schumm, et al., "Iterative Divergent/Convergent Approach to Linear Conjugated Oligomers by Successive Doubling of the Molecular Length: A Rapid Route to a 128 Å-Long Potential Molecular Wire," <i>Angew. Chem. Int. Ed. Engl.</i> , 33(11):1360-1363 (1994). |
| <input checked="" type="checkbox"/> | 144 | Sigal et al., "A Self-Assembled Monolayer for the Binding and Study of Histidine-Tagged Proteins by Surface Plasmon Resonance," <i>Anal. Chem.</i> , 68(3):490-497 (1996). |
| <input checked="" type="checkbox"/> | 145 | Southern, et al., "Arrays of complementary oligonucleotides for analysing the hybridisation behaviour of nucleic acids," <i>Nucleic Acids Research</i> , 22(8):1368-1373 (1994). |
| <input checked="" type="checkbox"/> | 146 | Strobel, S. A., et al., "Site-Specific Cleavage of a Yeast Chromosome by Oligonucleotide-Directed Triple-Helix Formation," <i>Science</i> , 249:73-75 (1990). |
| <input checked="" type="checkbox"/> | 147 | Su, et al., "Interfacial Nucleic Acid Hybridization Studied by Random Primer ³² P Labelling and Liquid-Phase Acoustic Network Analysis," <i>Analytical Chemistry</i> , 66(6):769-777 (1994). |
| <input checked="" type="checkbox"/> | 148 | Telser, J., et al., "DNA Duplexes Covalently Labeled at Two Sites: Synthesis and Characterization by Steady-State and Time-Resolved Optical Spectroscopies," <i>J. Am. Chem. Soc.</i> , 111:7226-7232 (1989). |
| <input checked="" type="checkbox"/> | 149 | Telser, J., et al., "DNA Oligomers and Duplexes Containing a Covalently Attached Derivative of Tris(2,2'-bipyridine)ruthenium(II): Synthesis and Characterization by Thermodynamic and Optical Spectroscopic Measurements," <i>J. Am. Chem. Soc.</i> , 111:7221-7226 (1989). |
| <input checked="" type="checkbox"/> | 150 | Tour, "Conjugated Macromolecules of Precise Length and Constitution. Organic Synthesis for the Construction of Nanoarchitectures," <i>Chem. Rev.</i> , 96:537-553 (1996). |
| <input checked="" type="checkbox"/> | 151 | Tour, et al., "Self-Assembled Monolayers and Multilayers of Conjugated Thiols, α - ω -Dithiols, and Thioacetyl-Containing Adsorbates. Understanding Attachments between Potential Molecular Wires and Gold Surfaces," <i>J. Am. Chem. Soc.</i> , 117:9529-9534 (1995). |
| <input checked="" type="checkbox"/> | 152 | Tullius, T.D. and B.A. Dombroski, "Iron(II) EDTA Used to Measure the Helical Twist Along Any DNA Molecule," <i>Science</i> , 230:679-681 (1985). |
| <input checked="" type="checkbox"/> | 153 | Turro, N., et al. "Photoelectron Transfer Between Molecules Adsorbed in Restricted Spaces," <i>Photochem. Convers. Storage Sol. Energy, Proc. Int. Conf.</i> , 8th, pp 121-139 (1990). |
| <input checked="" type="checkbox"/> | 154 | Turro, N. J., et al., "Molecular Recognition and Chemistry in Restricted Reaction Spaces. Photophysics and Photoinduced Electron Transfer on the Surfaces of Micelles, Dendrimers, and DNA," <i>Acc. Chem. Res.</i> , 24:332-340 (1991). |
| <input checked="" type="checkbox"/> | 155 | Uosake, K., et al., "A Self-Assembled Monolayer of Ferrocenylalkane Thiols on Gold as an Electron Mediator for the Reduction of Fe(III)-EDTA in Solution," <i>Electrochimica Acta</i> , 36(11/12):1799-1801 (1991). |
| <input checked="" type="checkbox"/> | 156 | Van Ness, J., et al., "A Versatile Solid Support System for Oligodeoxynucleotide Probe-Based Hybridization Assays," <i>Nucleic Acids Research</i> , 19(12):3345-3349 (1991). |

EXAMINER

DATE CONSIDERED

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| X | 157 | Weber, et al., "Voltammetry of Redox-Active Groups Irreversibly Adsorbed onto Electrodes. Treatment Using the Marcus Relation between Rate and Overpotential," <i>Anal. Chem.</i> , 66:3164-3172 (1994). | |
| X | 158 | Williams, et al., "Studies of oligonucleotide interactions by hybridisation to arrays: the influence of dangling ends on duplex yield," <i>Nucleic Acids Research</i> , 22(8):1365-1367 (1994). | |
| X | 159 | Winkler, J. R., et al., "Electron Transfer in Ruthenium-Modified Proteins," <i>Chem. Rev.</i> , 92:369-379 (1992). | |
| ✓ | 160 | Xu, et al., "Immobilization of DNA on an Aluminum(III) alkaneobisphosphonate Thin Film with Electrogenerated Chemiluminescent Detection," <i>J. Am. Chem. Soc.</i> , 116:8386-8387 (1994). | |
| ✓ | 161 | Xu, et al., "Immobilization and Hybridization of DNA on an Aluminum(III) Alkaneobisphosphonate Thin Film with Electrogenerated Chemiluminescent Detection," <i>J. Am. Chem. Soc.</i> , 117:2627-2631 (1995). | |
| X | 162 | Yang, et al., "Growth and Characterization of Metal(II) Alkaneobisphosphonate Multilayer Thin Films on Gold Surfaces," <i>J. Am. Chem. Soc.</i> , 115:11855-11862 (1993). | |
| X | 163 | Zhou, et al., "Fluorescent Chemosensors Based on Energy Migration in Conjugated Polymers: The Molecular Wire Approach to Increased Sensitivity," <i>J. Am. Chem. Soc.</i> , 117:12593-12602 (1995). | |
| X | 164 | Mucic et al., "Synthesis and Characterization of DNA with Ferrocenyl Groups Attached to their 5'-Termini: Electrochemical Characterization of a Redox-Active Nucleotide Monolayer," <i>Chem. Commun.</i> , pp. 555-557 (1996). | |
| X | 165 | Carr et al., "Novel Electrochemical Sensors for Neutral Molecules," <i>Chem. Commun.</i> , 1649-1650 (1997). | |
| X | 166 | Carter et al., "Voltammetric Studies of the Interaction of Metal Chelates with DNA. 2. Tris-Chelated Complexes of Cobalt(III) and Iron(II) with 10-Phenanthroline and 2,2'-Bipyridine," <i>J. Am. Chem. Soc.</i> , 111:8901-8911 (1989). | |
| ✓ | 167 | Johnston et al., "Trans-Dioxorhenium(V)-Mediated Electrocatalytic Oxidation of DNA at Indium Tin-Oxide Electrodes: Voltammetric Detection of DNA Cleavage in Solution," <i>Inorg. Chem.</i> , 33:6388-6390 (1994). | |
| ✓ | 168 | Korri-Youssoufi et al., "Toward Bioelectronics: Specific DNA Recognition Based on an Oligonucleotide-Functionalized Polypyrrole," <i>J. Am. Chem. Soc.</i> , 119(31):7388-7389 (1997). | |
| X | 169 | Aizawa et al., "Integrated Molecular Systems for Biosensors," <i>Sensors and Acuators B</i> , B@§ (Nos 1/3) Part 1:1-5 (March 1995). | |
| X | 170 | Reimers et al., "Toward Efficient Molecular Wires and Switches: the Brooker Ions," <i>Biosystems</i> , 35:107-111 (1995). | |
| X | 171 | Albers et al., "Design of Novel Molecular Wires for Realizing Long-Distance Electron Transfer," <i>Biochemistry and Bioenergetics</i> , 42:25-33 (1997). | |
| EXAMINER | | DATE CONSIDERED | |

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| <input checked="" type="checkbox"/> | 172 | Lincoln et al., "Shorting Circuiting the Molecular Wire," J. Am. Chem. Soc., 119(6)1454-1455 (1997). | |
| <input checked="" type="checkbox"/> | 173 | Velev et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," The ACS Journal of Surfaces and Colloids, Langmuir, 15(11):3693-3698 (1999). | |
| <input checked="" type="checkbox"/> | 174 | Blonder et al., "Three-dimensional Redox-Active layered Composites of Au-Au, Ag-Ag and Au-Ag Colloids," Chem. Commun. 1393-1394 (1998). | |
| <input checked="" type="checkbox"/> | 175 | Mirkin et al., "A DNA-based Method for Ratioally Assembling Nonoparticles into Macroscopic Materials," Nature, 382:607-609 (1996). | |
| <input checked="" type="checkbox"/> | 176 | Elghanian et al., "Selective Colorimetric Detection of Polynucleotides Based on the Distance-Dependent Optical Properties of Gold Nanoparticles," Science, 277:1078-1081 (1997). | |
| <input checked="" type="checkbox"/> | 177 | Storhoff et al., "One-Pot Colorimetric Differentiation of Polynucleotides with Single Base Imperfections Using Gold Nanoparticles Probes," J. Am. Chem. Soc., 120:1959-1964 (1998). | |
| <input checked="" type="checkbox"/> | 178 | Watson et al., "Hybrid Nanoparticles with Block Copolymer Shell Structures," J. Am. Chem. Soc., 121:462-463 (1999). | |
| <input checked="" type="checkbox"/> | 179 | Mucic et al., "DNA-Directed Synthesis of Binary Nanoparticle Network Materials," J. Am. Chem. Soc., 120:12674-12675 (1998). | |
| <input checked="" type="checkbox"/> | 180 | Mitchell et al., "Programmed Assembly of DNA Functionalized Quantum Dots," J. Am. Chem. Soc., 121:8122-8123 (1999). | |
| <input checked="" type="checkbox"/> | 181 | Kamat et al., J. Phys. chem., 93(4):1405-1409 (1989). Abstract | |
| <input checked="" type="checkbox"/> | 182 | Fotin, A. et al., "Parallel Thermodynamic Analysis of Duplexes on Oligodeoxyribonucleotide Microchips," Nucleic Acids Research, 216(6):1515-1521 (1998). | |
| <input checked="" type="checkbox"/> | 183 | Guschin, D. et al., "Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips," Analytical Biochemistry, 250:203-211 (1997). | |
| <input checked="" type="checkbox"/> | 184 | Dubiley, S. et al., "Fractionation, phosphorylation and Ligation on Oligonucleotide Microchips to Enhance Sequencing by Hybridization," Nucleic Acids Research, 25(12):2259-2265 (1997). | |
| <input checked="" type="checkbox"/> | 185 | Guschin, D. et al., "Oligonucleotide Microchips as Genosensors for Determinative and Environmental Studies in Microbiology," 63(6):2397-2402 (1997). | |
| <input checked="" type="checkbox"/> | 186 | Drobyshev, A. et al., "Sequence Analysis by Hybridization with Oligonucleotide Microchip: Identification of β -thalassemia Mutations," Gene, 188:45-52 (1997). | |
| <input checked="" type="checkbox"/> | 187 | Proudnikov, D. et al., "Chemical Methods of DNA and RNA Fluorescent Labeling," Nucleic Acids Research, 24(22):4535-4542 (1996). | |
| <input checked="" type="checkbox"/> | 188 | Timofeev, E. et al., "Methidium Intercalator Inserted into Synthetic Oligonucleotides," Tetrahedron Letters, 37(47):8467-8470 (1996). | |
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